

IN THE CLAIMS

Listing of Claims:

1-25 (canceled)

26. (currently amended) A kit for identifying the presence of a mismatch between two substantially complementary DNA sequences, the kit comprising:

a first DNA vector comprising a gene encoding a ~~detectable~~ marker site specific recombinase, an origin of replication active in a bacterial host cell, and a sequence(s) of interest, wherein said vector lacks methyl adenine; and a substantially complementary second vector, wherein said gene encoding said detectable marker further comprises an inactivating insertion, deletion or substitution of at least 5 nt, wherein said vector comprises methyl adenine at GATC sites;

an MMR strain of competent host bacteria, the bacterial host further having, between heterologous recombination sites, an antibiotic resistance gene and an antibiotic sensitivity gene.

27. (previously presented) The kit according to Claim 26, wherein said first strand and said substantially complementary second strand further comprise a selectable marker, and a polylinker having multiple sites for restriction endonucleases.

28. (previously presented) The kit according to Claim 26, wherein said first DNA vector is single stranded.

29. (previously presented) The kit according to Claim 28, wherein second DNA vector is single stranded.

30. (previously presented) The kit according to Claim 29, wherein said first DNA vector and said second DNA vector are annealed.

31-32. (canceled)

33. (previously presented) The kit according to Claim 26, further comprising a thermostable polymerase and amplification primers.

34 (canceled)

35. (previously presented) The kit according to Claim 26, wherein said site specific recombinase is cre recombinase.